CID 670632 Expanded description Line Item 1

NO.	INPUT ITEM	INPUT INFORMATION	REFERENCE
11	Manufacturer Notes and Comments	**ADDITIONAL DESCRIPTION:** BODY AND END FITTINGS: 316L STAINLESS STEEL (ASTM A351 TYPE CF3M AND/OR CF8M) WITH SCHEDULE 40 BUTT-WELD ENDS. 3-INCH BALL: FULL T-PORT 316 STAINLESS STEEL BALL WITH ELECTROLESS NICKEL COATING. STEM: 17-4 PH STAINLESS STEEL STEM CONDITION H1150. TOP 1-INCH TO BE MACHINED TO SQUARE DRIVE (0.864” +/- 0.001”). SEATS: TEFZEL SEATS BACKED WITH EPR COMPOUND E0740-75 O-RINGS. STEM PACKING: KYNAR CHEVRON LIVE LOADED STEM PACKING. SEALS: KYNAR AND EPR COMPOUND E0740-75 O-RING BODY SEALS. CAVITY FILLERS: KYNAR BODY CAVITY FILLERS. HARDWARE: A193 CLASS 1 GR B8 BODY BOLTS. TRAVEL STOPS & STOP DISC: REQUIRED TO ALLOW THREE DEGREES OF OVERTRAVEL AND STOP DISC TO BE MACHINED FROM 321 STAINLESS STEEL FOR ADDITIONAL HARDNESS. MINIMUM ALLOWABLE MISALIGNMENT (OVER-TRAVEL OR UNDER-TRAVEL) OF BALL PRIOR TO LEAKAGE SHALL BE 5 DEGREES FROM THE NOMINAL POSITION. THE VALVE RATING SHALL SUPPORT A	D202

		DESIGN PRESSURE/TEMPERATURE OF 400 PSIG AT 200 DEGREES FAHRENHEIT. THE VALVE SHALL MEET THE REQUIREMENTS OF ASME B16.34. VALVE BODY SHELL TESTS SHALL BE PERFORMED IN ACCORDANCE WITH ASME B16.34. TEST DOCUMENTATION TO BE PROVIDED WITH VALVES. VALVE SEAT CLOSURE TESTS SHALL BE PERFORMED IN ACCORDANCE WITH ASME B16.34 FOR TEST PRESSURE (GAS NOT LESS THAN 80 PSIG) AND TEST TIME UTILIZING THE TEST METHODS IN API 598. SEAT CLOSURE TESTS FROM EACH FLOW PORT TO THE ISOLATED PORT SHALL BE WITHIN THE LIMITS SPECIFIED IN API 598. TEST DOCUMENTATION TO BE PROVIDED WITH VALVES. LEAK TEST THE VALVE SEATS AT 50 +10/-5 PSIG FOR FCI-70-2-2003 TESTING. TESTING SHALL OCCUR FOR EACH VALVE POSITION. HOLD FOR ONE MINUTE AT THE NOMINAL VALVE POSITION AND THE ROTATE THE VALVE EACH DIRECTION UNTIL THE VALVES STARTS TO OPEN AND BACK OFF UNTIL CLOSED AND HOLD THAT POSITION FOR ONE MINUTE EACH. ALLOWABLE LEAK RATES AT THE TEST ANGLES ARE PER FCI-70-2-2003. THE ANGLE TESTED MUST BE GREATER THAN 5 DEGREES IN EACH DIRECTION. RECORD THE ANGLES AND LEAKAGE RATES AND REPEAT AS NESSECARY UNTIL ALL VALVE POSITIONS HAVE BEEN TESTED. VALVES SHALL BE MARKED WITH SERIAL NUMBERS TO MAINTAIN MATERIAL TRACEABILITY. VENDOR TO PROVIDE A CERTIFICATE OF CONFORMANCE WHICH IDENTIFIES AND ATTESTS TO THE FOLLOWING ITEMS: • SERIAL NUMBERS OF VALVES PROVIDED,	

		• THE PART NUMBER OF THE VALVES, • THAT THE VALVES CONFORM TO THE REQUIREMENTS SPECIFIED IN THE PURCHASE ORDER, • THAT THE VALVES ARE MANUFACTURED AND TESTED IN ACCORDANCE WITH ASME B16.34 REQUIREMENTS, • THAT THE MATERIALS OF CONSTRUCTION CONFORM TO ALL REQUIREMENTS STATED IN THE MANUFACTURER'S LITERATURE AND CONFORM TO THOSE MATERIALS SPECIFIED ON THE PURCHASE ORDER. **QUALITY CLAUSES:** B34, B37, B49, B52, B76, B80 **SAFETY FUNCTION:** PRIMARY PIPING/PRESSURE BOUNDARY – THE SAFETY FUNCTION OF THE PRIMARY PIPING SYSTEM IS TO PROVIDE CONFINEMENT OF WASTE. PROVIDING CONFINEMENT OF WASTE DECREASES THE FREQUENCY OF A FINE SPRAY LEAK. IN ADDITION, PROVIDING CONFINEMENT OF WASTE PROTECTS THE FACILITY WORKER FROM WETTING SPRAY/JET/STREAM LEAK, FROM A FLAMMABLE GAS DEFLAGRATION IN A DST ANNULUS DUE TO MISROUTE, AND FROM A FLAMMABLE GAS DEFLAGRATION IN A WASTE TRANSFER-ASSOCIATED STRUCTURE DUE TO A WASTE TRANSFER LEAK. VALVE ISOLATION – THE SAFETY FUNCTION OF SAFETY SIGNIFICANT ISOLATION VALVES IS TO LIMIT THE LEAKAGE OF WASTE. LIMITING THROUGH VALVE LEAKAGE DECREASES THE CONSEQUENCES OF A FINE SPRAY LEAK DUE TO A TRANSFER MISROUTE. IN ADDITION, THROUGH VALVE LEAKAGE PROTECTS THE FACILITY WORKER FROM WETTING SPRAY/JET/STREAM LEAK AND FROM FLAMMABLE GAS DEFLAGRATIONS IN	

		A WASTE TRANSFER ASSOCIATED STRUCTURE OR OTHER FACILITY DUE TO A MISROUTE. **CRITICAL CHARACTERISTICS** FOR PRIMARY PIPING/PRESSURE BOUNDARY – ITEM IDENTIFICATION, DESIGN PRESSURE (≥400 PSIG), MAXIMUM DESIGN TEMPERATURE (≥200 DEGREES FAHRENHEIT), MINIMUM DESIGN TEMPERATURE (≤32 DEGREES FAHRENHEIT), AND MATERIAL COMPATIBILITY (300 SERIES STAINLESS STEEL). FOR DOUBLE VALVE ISOLATION – ITEM IDENTIFICATION, DESIGN PRESSURE (≥400 PSIG), MAXIMUM DESIGN TEMPERATURE (≥200 DEGREES FAHRENHEIT), MINIMUM DESIGN TEMPERATURE (≤32 DEGREES FAHRENHEIT), MATERIAL COMPATIBILITY, AND SEAT LEAKAGE (TEST PRESSURE, GAS NOT LESS THAN 80 PSIG, AND TEST TIME/LEAKAGE LIMITS UTILIZING THE TEST METHODS IN API 598).	